

ZERO AIR GENERATORS DESK SERIES



ZERO AIR GENERATOR

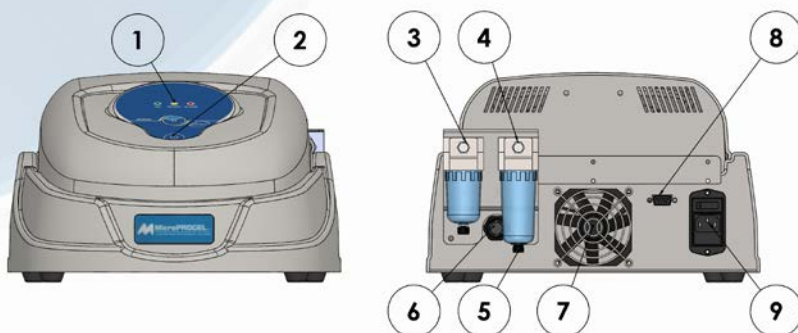
The Zero Air Generator series are systems which replace the use of inconvenient high pressure gas cylinders as a source of hydrocarbon-free air.

The elimination of gas cylinders reduces annual operating costs of managing them and reduces the risk of possible injury to workers.

Zero Air Generator may be used as a source of fuel air for Flame Ionization Detectors (FID's) or as a zero reference for any instrument which measures hydrocarbon concentration.

The zero air generator will remove HC pollutants to less than 0.05 ppm.

This system is engineered to be easy to install and requires only minimal annual maintenance.



- 1 Status LEDs
- 2 START/STOP button
- 3 Air outlet
- 4 Compressed air inlet
- 5 Water drain purge
- 6 Pressure regulator
- 7 Cooling fan air (*inlet*)
- 8 RS-485
- 9 Power switch and power socket

Main Applications

- THA
- GC-FID
- NPD
- FPD
- PFPD

Main Features

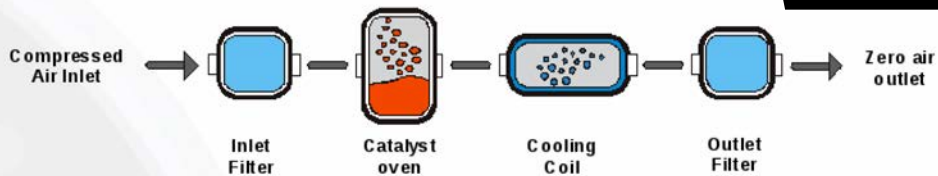
- **Available Flow-rates:**
1500, 3000, 6000, 15000
and 30000 cc/min
- **Outlet pressure:**
6.5 bars
- **Total Hydrocarbon content:**
< 0.05 ppm
- **Communication port:**
RS-485
- **Dimensions:**
58x34x20(H) cm
- **Weight:**
<10 kg
- **Certification:**
CE, ISO9001

Additional feature:

Stackable with H2
Generator



Principle diagram



The system features 3 stages of filtration:

First Stage: high efficiency coalescing pre-filtration, removes liquids and particulate matter from the incoming air supply, down to 5 microns.

These filters are equipped with float drains which automatically open to empty any liquids from inside the filter housing. The drains are threaded ISO M5 which can be added a fitting and a tube which discharge into the atmosphere.

Second Stage: the catalytic module is a stainless steel vessel filled with catalyst and assembled with a cartridge heater controlled by temperature sensor, operating the catalyst bed at the required temperature for optimal oxidation. During operation, hydrocarbons are oxidized into carbon dioxide and water vapour.

Third Stage: a high-grade filter is used to remove 99.99% of particulates with size greater than 0.01 microns.

Technical specifications

Model	ZA.1500	ZA.3000	ZA.6000	ZA.15000	ZA.30000
Air outlet					
Flow rate (max)	1.5 l/min	3.0 l/min	6.0 l/m	15.0 l/min	30.0l/m
Outlet pressure (min)	Inlet pressure – 0.5 bars (8 psi) @ maximum flow			Inlet pressure – 1.0 bars (13 psi) @ maximum flow	
Outlet pressure (max)	7 bars (100 psi)				
Total hydrocarbon content	< 0.05ppm				
Start-up time	40 min	45 min	45 min	50 min	60 min
Air inlet					
Max inlet hydrocarbon content	100ppm				
Min supply pressure	3 bars (43psi)				
Max supply pressure	10 bars (145 psi)				
Dew point	< -20°C				
Min temperature	1°C (34°F)				
Max temperature	35°C (95°F)				
Communication					
RS485	X				
General data					
Supply voltage	100-240Vac 50/60Hz				
Connection type	IEC320-C13				
Installation power (max)	240W (280VA)				
Fuse rating (5x20mm)	4A				
Dimensions	58x34x20(H) cm				
Net weight	< 8 kg			< 10 kg	
Connections					
Outlet port	1/8" female				
Inlet port	1/8" female				
Water purge	6mm(1/4) push fitting				
Operating conditions					
Temperature	5-35°C (41-95°F)				
Humidity (max, non condensing)	80% at 25°C (77°F)				
Noise	<25dB(A)				
IP rating	IP20				